

## MATH 7

Write your  
questions here!

## Complex Fractions

$$\frac{\frac{1}{4}}{\frac{2}{3}}$$

$$\frac{\frac{2}{3}}{4}$$

$$\frac{5}{2\frac{1}{2}}$$

## Rate

You bike 30 miles in 5 hours. What is your average speed?

You jog 3 miles in  $\frac{1}{3}$  hours. What is your average speed?You walk  $1\frac{1}{3}$  miles in  $\frac{2}{5}$  hours. What is your average speed?

## Proportional

The following are proportional. Find the constant of proportionality.

Time (min)	Distance (meters)
$\frac{1}{3}$	$\frac{5}{2}$
$1\frac{1}{2}$	$11\frac{1}{4}$
$\frac{14}{15}$	7

Mr. Kelly uses  $2\frac{1}{2}$  scoops of Whey Protein in 12 ounces of soy milk.

Scoops (#)	Soy Milk (ounces)
$2\frac{1}{2}$	
2	
$\frac{2}{3}$	

SUMMARY:Now,  
summarize  
your notes  
here!

Divide the complex fractions. Reduce to simplest form if possible.

1.

$$\frac{\frac{3}{4}}{\frac{2}{5}}$$

2.

$$\frac{\frac{4}{2}}{\frac{3}{3}}$$

3.

$$\frac{\frac{3}{7}}{\frac{5}{5}}$$

Find the rate. LABEL YOUR ANSWER!

4. It rained  $2\frac{3}{4}$  inches in 3 hours.  
What is the average amount of rain per hour?

5. Dustin made  $3\frac{1}{5}$  pies in  $\frac{4}{5}$  of a day.  
What is the average amount of pies per day?

6.  $2\frac{2}{3}$  pounds of peanuts cost you 4 dollars.  
What is the price per pound?

The following are proportional. Find  $k$  and write an equation to represent the situation.

7.

Time (min)	Distance (meters)
$1\frac{1}{2}$	$\frac{9}{4}$
3	$\frac{9}{2}$
5	$7\frac{1}{4}$

8.

Gas (liters)	Distance (km)
2	$\frac{3}{2}$
$2\frac{1}{2}$	$\frac{15}{8}$
$\frac{4}{5}$	$\frac{3}{5}$

9.

Gummy Bears (pound)	$\frac{1}{8}$	$\frac{12}{5}$	$3\frac{1}{2}$
Cost (dollars)	$\frac{5}{24}$	4	$\frac{35}{6}$

The following are proportional. Find k. Fill in the table and complete the sentence.

10. Caitlyn can swim 12 laps in  $\frac{1}{4}$  hours. Find her average speed in laps per hour?

Time (hours)	Laps (#)
$\frac{1}{4}$	
$\frac{2}{3}$	

In  $\frac{2}{3}$  hours, Caitlyn swims \_\_\_\_\_ laps.

11. Joey packed  $2\frac{1}{4}$  boxes in  $\frac{1}{4}$  hours. Find the average speed in boxes per hour.

Time (hours)	Boxes Packed (#)
$\frac{1}{4}$	
3	

In 3 hours, Joey packs \_\_\_\_\_ boxes.

12. You buy  $2\frac{3}{4}$  yards of fabric for  $4\frac{1}{2}$  dollars. Find the price per yard of fabric.

Length (yard)	Cost (\$)
$2\frac{3}{4}$	
$\frac{1}{2}$	

You buy  $\frac{1}{2}$  a yard of fabric for \_\_\_\_\_ dollars.

13. Sophie can read  $\frac{3}{4}$  pages in  $\frac{3}{5}$  minutes. Find the average speed she can read in pages per minute.

Time (min)	Pages Read (#)
$\frac{3}{5}$	
$2\frac{2}{3}$	

Sophie reads \_\_\_\_\_ pages in  $2\frac{2}{3}$  minutes.

1. Divide.

$$\frac{\frac{3}{4}}{\frac{2}{5}}$$

2. Anna made  $2\frac{3}{5}$  cakes in  $\frac{3}{4}$  of a day. What is the average amount of cakes per day?

3. Use unit rates to compare the prices of the following corn shops. Which shop has a better price? Justify!

**Kelly Corn**

$8\frac{3}{4}$  pounds  
for  
7 dollars

**Corey Corn**

$3\frac{1}{8}$  pounds  
for  
 $2\frac{1}{2}$  dollars

**EXIT TICKET –**

Mr. Bean eats  $\frac{3}{4}$  of a burrito every  $\frac{3}{5}$  days. Mr. Bean figures that he eats 4 burritos every 5 days. Is he correct? Explain why or why not.